

Sample Project: Network administration, monitoring and optimization

Code	PH2322
Programme	TRAIN-PTES
Department	PH
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Date Created	02-JUN-14
Date updated	16-JUN-14

Title

Network administration, monitoring and optimization

Description

We offer a trainee position within the ATLAS network administration team that is responsible for a large and complex network interconnect comprising over 3000 end nodes, 100 edge switches and 5 large routers. The trainee will participate to regular administration tasks, such as configuring switches, exchanging faulty components, installing new devices, and monitoring the overall performance of the network. In addition, he will contribute to one software development project aimed at improving automated fault detection and root cause analysis using artificial intelligence techniques.

The trainee will study the problem and, with support from the team, develop, test and implement the required information collection mechanisms and the algorithms to apply on gathered data. He will present the project in its different phases in open collaboration meetings and will finally document his work using web tools.

Skills

Databases: MySQL. Information Technologies: System administration (e.g. with GNU/Linux, Microsoft Windows, Networks), Using web application frameworks (e.g. Django, GWT, APEX). Programming Languages: Python, SQL, PL/SQL or similar

Disciplines

Information Technologies

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